

Elektrichestvo, 10, 18-23, 0 1955

AID P - 3438

Card 2/2 Pub. 27 - 5/32

insulation. The author maintains, contrary to A. K. Ashryatov, that the application of norms based on the characteristics of insulation developed by the operating organizations of the Ministry of Electric Power Stations cannot lead to faulty connections of transformers. These norms are applied satisfactorily by a great number of transformer operators. One table, 1 diagram, 8 references (5 Soviet) (1935-1955).

Institution : Central Scientific Research Electrical Engineering
Institute of the Ministry of Electric Power Stations

Submitted : Ag 1, 1955

KULAKOVSKIY, V.B., kandidat tekhnicheskikh nauk.

Drying electric machines (from "ETZ - A" no.10 '55). Reviewed
by V.B.Kulakovskii. Elektrichestvo no.9:85-87 S '56. (MLRA 9:11)
(Electric insulators and insulation)

KULAKOVSKIY, V.B.
SKORIK, N.S., inzhener; TSUKERNIK, S.V., inzhener; LYSAKOVSKIY, G.I.,
kandidat tekhnicheskikh nauk; ZVEZDKIN, V.N., inzhener; IZRAYELIT,
G.B., inzhener; KOZYREV, N.A., kandidat tekhnicheskikh nauk;
KULAKOVSKIY, V.B., kandidat tekhnicheskikh nauk; KARAMZIN, A.P.,
inzhener; ALEKSEYEV, S.V., inzhener.

Electrical strength of stator winding insulation in 6-6.6 kv
electric machines. Elek.sta. 27 no.4:38-51 Ap '56. (MLRA 9:8)

1. Khar'kovskiy elektromekhanicheskiy zavod (for TSukernik);
 2. Donbassenergo (for Lysakovskiy); 3. Lenenergo (for Izrayelit);
 4. LPI (for Kozyrev); 5. TSentral'naya nauchno-issledovatel'skaya
elektrotekhnicheskaya laboratoriya (for Kulakovskiy); 6. Sverdlov-
energo (for Karamzin); 7. Mosenergo. (for Alekseyev).
- (Electric insulators and insulation--Testing)

KULAKOVSKIY, V.B., kand. tekhn. nauk

Preventive insulation tests of heavy-duty electric machines in the
U.S.A. and Canada. Energokhoz. za rub. no.1:32-35 Ja-F '57.

(MIRA 12:11)

(Electric machinery--Testing)

(Electric insulators and insulation--Testing)

KULAKOVSKIY, V.B., kand.tekhn.nauk

Effect of ionization on the insulation of electric machines
and control of the ionization. Energokhoz.za rub. no.4:25-26
Jl-Ag '57. (MIRA 12:11)
(Electric insulators and insulation)

KULAKOVSKIY, V. B.

ALEKSEYEV, B.A., inzhener; KULAKOVSKIY, V.B., kandidat tekhnicheskikh nauk.

The problem of impulse testing the turn-to-turn insulation in
high-voltage machines. Elektrichestvo no.4:75-79 Ap '57.
(MLRA 10:5)

1. Tsentral'naya nauchno-issledovatel'skaya elektrotekhnicheskaya
laboratoriya Ministerstva elektrostantsii SSSR.

(Electric insulators and insulation)

(Electric machines)

Kulakovskiy V.S.

VUL'MAN, G.L.; KULAKOVSKIY, V.B.

Conference on problems of insulating high-voltage electric machines.
Elek.sta. 28 no.10:92-94 '57. (MIRA 10:11)
(Leningrad--Electric machines--Congresses)

KULAKOVSKIY, V.B., kand. tekhn. nauk

what the $\tan \delta$ is, what it depends on and how it is measured. *Energetik*
6 no. 1:31-32 Jan '58. (MIRA 11:8)

(Electric insulators and insulation)

KARTASHKIN, B.A., inzh.; KULAKOVSKIY, V.B., kand.tekhn.nauk; EZRINA,
I.V., inzh.

Methods for mechanical tests of insulation in electric
machines. Vest.elektroprom. 31 no.2:33-37 F '60.
(MIRA 13:6)

(Electric machinery)
(Electric insulators and insulation--Testing)

KULAKOVSKIY, Viktor Borisovich; KOROLEV, V.N., inzh., retsenzent;
KHVAL'KOVSKIY, A.V., kand.tekhn.nauk, red.; BORUNOV, N.I.,
tekhn.red.

[Preventive testing of the insulation of large electric machinery]
Profilakticheskie ispytaniia izoliatsii krupnykh elektricheskikh
mashin. Moskva, Gos.energ.izd-vo, 1961. 135 p.

(Electric insulators and insulation—Testing) (MIRA 14:6)
(Electric machinery)

KULAKOVSKIY, V.R., kand.tekhn.nauk

Methodology for determining the principal mechanical characteristics
of the insulation of electrical machines. Elektrichestvo no.10:
27-31 0 '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki.
(Electric machinery)
(Electric insulators and insulation)

KULAKOVSKIY, V.B., kand.tekhn.nauk

Permissible moisture content in operating electric
transformers. Elek. sta. 34 no.3:91-94 Mr '63. (MIRA 16:3)
(Electric transformers)

L 11051-66

ACC NR: AP6004792

SOURCE CODE: UR/0105/65/000/005/0090/0090

AUTHOR: Burgsdorf, V. V.; Gortinskiy, S. M.; Drozdo, N. G.; Kulakovskiy, V. B.;
Lindorf, L. S.; Mel'nikov, N. A.; Petrov, I. I.; Portnoy, M. K.; Syromyatnikov, I. A.;
Fedoseyev, A. M.; Khachaturov, A. A.; El'kind, Yu. M.

ORG: none

TITLE: Doctor of engineering sciences, Professor L. G: Mamikonyants

SOURCE: Elektrichestvo, no. 5, 1965, 90

TOPIC TAGS: electric engineering personnel, electric engineering

ABSTRACT: The article was written in honor of Lev Grazdanovich Mamikonyants on the occasion of his 50th birthday and upon his completion of 30 years of scientific and industrial activity. He graduated from the Azerbaijan Industrial Institute in 1938, whereupon he worked at the Central Industrial Research Laboratory of Azenergo first as Electrical Engineer and then as Chief Engineer. His scientific activity begun during the student years at the university laboratories for electrical machinery and high-voltage techniques. From 1941 to 1945 he served in the Soviet Army and became a member of the Communist Party in 1942. Since 1945 he has been working with the VNIIE (All-Soviet Scientific Research Institute of Electric Power) at the State Industrial Commission on Power and Electrification of the USSR, in charge of the Electrical Machinery Laboratory now and also as head of the Department of Electrical Machinery, Insulation and Automation. Since 1953 he has also been the Vice-Director of the Institute of Scientific Affairs. He received the degree of Doctor of

Card 1/2

UDC: 621.331

L 1051-66

ACC NR: AF6004792

4
Engineering Sciences in 1959 and was appointed Professor in 1961. Much theoretical and practical work has been done under his leadership at the Electrical Machinery Laboratory which he helped to set up. Problems concerning the theory of synchronous machines leading to their improved operation were worked out here (asynchronous condition after loss of excitation, simplified method of compensator starting, self-synchronization of generators, etc.). L. G. Mamikonyants is also active in scientific research coordinating committees on power and electrification in the USSR. He sits also on the Committee for the Determination of Electrical Equipment Parameters and on the Joint Scientific Council of the Moscow Power Institute. Furthermore, he is on the editorial board of Elektrichestvo. During his entire career he has published about 60 works, many of them resulting from basic research. At the Moscow Power Institute he taught a course on "Special Problems in Electric Power Stations" from 1952 to 1954 and on "Testing of Synchronous Machines" from 1953 to 1954. The texts of his lectures were printed in the form of a compendium. He is very effective in training the young generation of students and assisting them in earning their degrees. L. G. Mamikonyants participates in the activities of the VNIIE both as recruiter and as lecturer. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2

KULAKOVSKIY, V.B., kand. tekhn. nauk

Locating winding rods of electrical machines with increased leakage
current. Elek. sta. 36 no.11:85 N '65. (MIRA 18:10)

KULAKOVSKII, V. G., jt. au.

New sowing methods with new SK-5 grain drills (38 x 6.5). Kyiv, Derzh. vyd-vo kolhospnoi
i radhospnoi lit-ry, URSR, 1937. 23 p. (50-47574)

S687.K3

VASILENKO, P.M.; KULAKOVSKIY, V.O.

Theory of the topping mechanisms in beet-harvesting machines.
Nauch.trudy Inst.mash. i sel'khoz.mekh. AN URSS 4:51-60 '54.(MIRA 9:9)
(Combines (Agricultural machinery))(Sugar beets--Harvesting)

ANTON'YEVA, N.M.; BASHILOV, A.A.; KULAKOVSKIY, Ye.K.

Radioactive decay of Ag^{110m}. Zhur.eksp.i teor.fiz. 37 no.6:1497-
1505 D '59. (MIRA 14:10)

1. Leningradskiy gosudarstvennyy universitet.
(Silver--Decay) (Radioactivity)

ULAKOWSKI, Antoni

23

... the usefulness of pulp treatment in a koller-gang. Antoni
Kulakowski, *Disengled Paper*, 7, 17, 84 (1954). This
expts., consisting of kneading unbleached or beaten sulfate
pulp in a koller-gang, were carried out to det. the changes in
pulp properties. The results showed that kneading reduced
pulp strength, its volumetric wt., and beating time in the
pulp of slow papermaking pulp, and increased stretch, air
permeability, and absorbency. Whenever possible, koller-
gang treatment should be omitted because of loss in pulp
strength and increased production costs. When high
strength and absorbency of paper are desired, and good
strength is not essential, the use of a koller-gang for not more
than 30 min. seems to be advantageous. Changes in prop-
erties of kneaded pulp are thought to be due to the destruc-
tion of a certain amt. of H bonds between the cellulose
chains. T. R. Zegree

BARA, Marian, mgr inz.; KULAKOWSKI, Antoni, inz.

Main trends of technical progress in the water management of the wood industry. Gosp wodna 23 no.5:201-202 My '63.

ALEKSANDROWICZ, T.; ALEKSANDROWICZ, R.; BĘDŃSKI, Z.; CHRUSCIKOWSKI, R.;
DAGAJEW, B.; DOBRZANSKI, A.; KULAKOWSKI, A.; LAMPARSKI, M.;
TOMASZEWSKI, M.

Amount of lost blood during certain operations. Polski przegl.chir.
26 no.11 Suppl.:316-320 1954.

1. Kolo Chirurgiczne Studentow AM w Warszawie.
(SURGERY, OPERATIVE,
preop. loss of blood)
(HEMORRHAGE,
preop. loss of blood)

KOSZAROWSKI, Tadeusz; KULAKOWSKI, Andrzej

Extraction of parasternal lymph node in radical operations of breast cancer. Polski tygod. lek. 11 no.29:1299-1303 16 July 56.

1. Z Oddz. Chirurgicznego Instytutu Onkologii im. Marii Skłodowskiej-Curie w Warszawie; kierownik: doc. dr. med. T. Koszarowski. Instytut Onkologii: Warszawa ul. Wawelska 15.

(BREAST NEOPLASMS, surgery,

radical excis. with extirpation of parasternal lymph nodes (Pol))

(LYMPH NODES, surgery,

parasternal, extirpation in radical surg. of breast cancer (Pol))

POLAND / General Problems of Pathology. Tumors.

U

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42045.

Author : Gorski, C., Kulakowski, A.

Inst : Not given.

Title : Cortisone Therapy of Female Breast Carcinoma
in the Late Stages.

Orig Pub: Nowotwory, 1957, 7, No 3-4, 279-288 (Polish-
abstract Russ. Eng.)

Abstract: The authors treated, during one year (1956-1957)
10 women (aged 38-60) with far advanced carcin-
oma of the breast. The women were either in
menopause or were subjected to castration. All
were treated with rentgentherapy or underwent
surgical intervention. Only one patient failed
to receive previous therapy. Five patients had
metastases to the bones, brain and lungs. The
patients were treated with cortisone (orally or

Card 1/2

25

POLAND / General Problems of Pathology. Tumors.

U

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42045.

Abstract: intramuscularly with daily doses of 200 mg in
2 fractional doses for a period of 10-300 days).
The patients were, at the same time, on a low
salt intake and received from 500-600 mg of vit.
C daily. All patients improved subjectively
(disappearance or decreased intensity of pain,
improvement in general feeling and appetite) as
well as objectively (gain in weight, arrest of
growth of the tumor and occasionally decrease
of the size of the tumor). The authors explain
the effect of cortisone by its action on met-
abolism and particularly by its anti-inflamma-
tory action. They believe that cortisone also
has a direct effect on the tumor or its connect-
ive substratum. The usual side-effects of cor-
tisone were noted. -- M. E. Manikov.

Card 2/2

KOSZAROWSKI, Tadeusz; KULAKOWSKI, Andrzej

Considerations on excision of peristernal lymph nodes in radical surgery of breast cancer; report of 60 cases. Polski urzegl. chir. 30 no.5:549-551 May 58.

(MASTECTOMY,

radical with peristernal lymph node excis. in cancer (Pol))

KULAKOWSKI, Andrzej

Plastic and restorative surgery in the treatment of malignant tumors.
Polski tygod. lek. 16 no.40:1546-1551 2 0 '61.

1. Z Oddziału Chirurgicznego Instytutu Onkologii w Warszawie; dyrektor
Instytutu: prof. dr med. J. Laskowski; kierownik oddziału: prof. dr
med. T. Koszarowski i z Department of Plastic Surgery the Churchill
Hospital, Oxford; director: Eric W. Peet F.R.C.S.

(NEOPLASMS surg) (SKIN TRANSPLANTATION)

MAYZA, Jerzy; MALINOWSKI, Zbigniew; BRZEZINSKA-WERNER, Hanna; KOLODZIEJSKI, Tadeusz; KULAKOWSKI, Andrzej; NIEMAND, Dorota.

Evaluation and indications for the treatment of neoplasms of the extremities with the aid of perfusion. Nowotwory 13 no.3: 245-252 J1-S'63.

1. Z Oddzialu Chirurgicznego Instytutu Onkologii im. Marii Sklodowskiej-Curie w Warszawie (kierownik: prof. dr. med. T. Koszarowski) i Zakladu Izotopowego (kierownik: prof. dr. med. W. Jasinski; dyrektor: prof. dr. med. W. Jasinski).

*

POLAND

GORSKI, Czeslaw and KULAKOWSKI, Andrzej, Surgery Division (Oddzial Chirurgiczny) (Director: Prof. Dr. med. T. KOSAROWSKI), Oncology Institute (Instytut Onkologii) im. Marii Skłodowskiej-Curie in Warsaw (Director: Prof. Dr. med. W. JASINKSI)

"Notes on Treatment of Patients Following Bilateral Adrenalectomy."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 27, 1 Jul 63, pp 935-939.

Abstract: [Authors' English summary modified] Authors report a study of 38 women on which bilateral adrenalectomy had to be performed because of breast cancer, and discuss the details of pre- and post operative care, as well as principles of substitutive therapy. If proper hormone and substitutive treatment is followed, no major complications occur. Women prone to stress should be observed carefully and corticoids increased in case of negative stresses. Special care must be excercided if they require surgery. Some aspects of hormone therapy are illustrated with case histories. There are 11 references, 4 Polish and 7 English.

11/1

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000927320019-8

RAPSKI, Jozef, KULAKOWSKI, Andrzej.

Cutaneous fibrosarcoma of the mons veneris. Ginek. pol. 34. no.6:751-755 '63.

1. Z Oddzialu Polozniczo-Ginekologicznego Instytutu Gruzlicy (kierownik: dr.med.J.Ruszkowski) i z Oddzialu Chirurgicznego Instytutu Onkologii w Warszawie (kierownik: prof. dr.med. T.Koszarowski).

*

KOSZAROWSKI, Tadeusz; GORSKI, Czeslaw; KULAKOWSKI, Andrzej.

Bilateral adrenalectomy in the treatment of breast cancer in women. Polski przegl. chir. 35 no.9:1000-1001 '63.

1. Z Oddzialu Chirurgicznego Instytutu Onkologii im. Marii Curie Sklodowskiej w Warszawie. Kierownik: prof. dr. T. Koszarowski.

EULAKOWSKI, Andrzej

Surgical treatment of post-irradiation skin ulcers and scars.
Nowotwory 14 no.4:357-366 Q-D '64

1. Z Oddziału Chirurgicznego Instytutu Onkologii w Warszawie
(Kierownik: prof. dr. med. T. Koszarowski (Dyrektor: prof. dr.
med. W. Jasinski).

MEYZA, Jerzy; KULAKOWSKI, Andrzej

Prolonged intra-arterial treatment of malignant neoplasms.
Nowotwory 15 no.1:11-16 Ja-Mr'65.

1. Z Oddziału Chirurgicznego Instytutu Onkologii w Warszawie
(Kierownik: prof. dr. med. T. Koszarowski; Dyrektor: prof. dr.
med. W. Jasinski).

KULAKOWSKI, Andrzej

Surgical treatment of cancer of the lower lip. Czas. stomat.
18 no.8/9:961-968 Ag-3 '65.

1. Z Oddziału Chirurgicznego Instytutu Onkologii w Warszawie
(Kierownik: prof. dr. med. T. Koszarowski).

KULAKOWSKI, Andrzej

Surgical treatment of recurrences of cutaneous basal-cell carcinoma. Pol. tyg. lek. 20 no.36:1364-1366 6 S '65.

1. Z Oddziału Chirurgicznego Instytutu Onkologii w Warszawie (Kierownik Oddziału: prof. dr. med. T. Koszarowski).

L 17923-65 EMT(d)/EMT(m)/EMP(f)/T-2 AEDC(b)/AFETR/AFTC(a)

ACCESSION NR: AP5000711

F/0008/64/000/10-/0266/0272

AUTHOR: Kulakowski, B. (Master engineer)

B

TITLE: Methods for determining the time constant of single-shaft turbojet engines 23

SOURCE: Technika lotnicza, no. 10-11, 1964, 266-272

TOPIC TAGS: turbojet engine, turbojet engine time constant, time constant, time constant determination method

ABSTRACT: This article describes four methods for determining the time constant of a turbojet engine: 1) the analytic method, based on the assumption that the moment of a compressor is directly proportional to the product of air consumption and speed of rotation, does not require knowledge of either compressor or fuel consumption characteristics; 2) the computation-empirical method using stand fuel consumption characteristics under the steady conditions for determining the derivative $\partial G_f / \partial n$, where G_f is fuel consumption, and n is speed of rotation (application of empirical factor ϕ , which is based on many studies, shows that this is the fairest method and not unduly complicated); 3) the approximation formula which

Card 1/3

L 17923-65

ACCESSION NR: AP5000711

is basically identical with method 2 except that it does not contain the empirical factor; and 4) the derivation of a differential equation for the engine as a control object, this being the most time-consuming method and requiring the compressor characteristic for determining the derivatives $\partial G/\partial n$ and $\partial G/\partial r_s$, where G is consumption, n the speed of rotation, the compression, and s compressor. A comparison of calculation results with measurement results given in Table 1 of the Enclosure shows a great difference in values obtained by the various methods. This difference leads to the conclusion that the calculation methods and the measurement method require further study and research. Orig. art. has: 37 formulas, 6 figures, and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: PR

NO REF SOV: 003

OTHER: 002

Card 2/3

L 17923-65

ACCESSION NR: AP5000711

ENCLOSURE: 01

Table 1. Comparison of experimental data on an engine with compression values obtained by different computation methods

	Analytic method (Abezgaus)	Empirical-analytic method (Lawrence and Powell)	Approxima- tion form- la (Abezgaus)	Analytic method (Vorontov)	Measure- ment
$\frac{2}{T}$ mass	0.622	1.54	0.973	0.959	1.0

Card 3/3

KULAKOWSKI, Bohdan, mgr inż.

Influence of the efficiency changes of the jet engine components
on the performance of the entire engine. Inst lotn prace no.20:
30-37 '63.

KULAKOWSKI, Bohdan, mgr inż.

Methods of determining the time constant of one-spool turbojet engines. Techn letn 19 no.10/11:266-272 G-N '64.

KULIAKOWSKI, J., mgr inz.

Influence of the combustion chamber on the performance of high-pressure motors as seen from experiments with S 56 and S 560 motors. Techn motor 12 no. 4/5: 98-99 Ap-May '62.

1. Biuro Konstrukcyjne Przemysłu Motoryzacyjnego, Warszawa.

RZEPECKI, Wit; BLEDOWSKA, Jadwiga; JAWORSKI, Jan; KULAKOWSKI, Leszek;
MICHELINI, Henryk; SROGZYNSKI, Stefan

Atelectasis in pneumothorax treatment. Gruzlica 24 no.9:
939-945 Sept 56.

1. Z Zakladu Ftyzjochirurgii I.D. i S.K.L. Kierownik: prof. dr.
W. Rzepecki z Sanatorium im. Dr. O. Sokolowskiego p. o. Dyrektor;
lek. S. Mlekodaj i z Panstwowego Zespolu Sanatoriow Przeciwegrusliczych
Dyrektor: dr. S. Frenkel. Adres: Zakopane, ul. Kasprowicza 1.

(PNEUMOTHORAX, ARTIFICIAL, compl.

atelectasis, eff. of previous pneumothorax & tuberc.
lesions on)

(ATELECTASIS, etiol. and pathogen.

pneumothorax, artificial, eff. of previous pneumothorax
& tuberc. lesions)

KULAKOWSKI, Leszek (Dziecięcy Ośrodek Sanatoryjno-Prewentoryjny w Rabce)

Middle lobe syndrome. Gruzlica 26 no.7:587-592 July 58.

1. Z Dziecięcego Ośrodka Sanatoryjno-Prewentoryjnego w Rabce Dyrektor:
dr J. Rudnik.

(ATELECTASIS

middle lobe synd. (Pol))

KULAKOWSKI, L.

Effect of tuberculin on white corpuscles. Gruzlica 21 no.5:355-361 May
1953. (GIML 25:1)

1. Of the State Tuberculosis Sanatorium (Director--S. Frenkel, M.D.)
Prabuty.

PARYSKI, E.; KULAKOWSKI, Z.

Determination of streptomycin resistance of tubercle bacilli in egg media. Gruzlica, Warszawa 17 no.3-4:226-232 J1-D '49. (CIWL 19:3)

1. Of the Sanatorium of the Polish Red Cross in Zakopane (Director-- Jerzy Szymonowicz, M.D.) and of the Laboratory Research Division of the Polish Institute of Tuberculosis in Zakopane (Head -- E.Paryski).

40234-00
ACC NR: AP6030995

SOURCE CODE: BU/0015/66/027/001/0091/0095

AUTHOR: Kulaksuzov, G.; Maznikov, Z.; Slavov, Iv.

ORG: Main Center for Geological Studies (Glavno upravl. za geol. prouchvaniya)

TITLE: Permian from the southern slopes of Surnena Gora

SOURCE: Bulgarsko geologicheskio druzhestvo. Spisanie, v. 27, no. 1, 1966, 91-95

TOPIC TAGS: geology, physical geology

ABSTRACT: During the detailed surveying in 1962-1963 of the Southern slopes of Surnena Gora, the authors uncovered for the first time the existence of Permian rocks within a fully developed profile of the Surnovets graben syncline. They present the orientation, composition, and possible growth pattern of the profile and summarize their findings by means of geological map of the region. The thickness of the Permian complex varies within wide limits with maxima up to 250 m. Orig. art. has: 1 figure. [JPRS: 36,844]

SUB CODE: 08 / SUBM DATE: 12Feb65 / ORIG REF: 008

Card 1/1 *LC*

0918 1971

S/058/60/000/009/001/004
A005/A001

// 4100

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 9, p. 150, # 23028

AUTHORS: Nikol'skiy, N.A., Kulakutskaya, N.A., Pchelkin, I.M., Klassen,
T.V., Vel'tishoheva, V.A.

TITLE: The Thermophysical Properties²¹ of Certain Metals and Alloys in
Molten State

PERIODICAL: V sb.: Vopr. teploobmena, Moscow, AN SSSR, 1959, pp. 11-14

TEXT: The designs of experimental units and investigation methods are described in detail, as well as the results from measurements of the coefficients of heat conductivity, heat capacity, kinematic viscosity, and the specific gravity of molten metals and alloys. The results obtained by the Energeticheskii Institut AN SSSR (Power Engineering Institute of the Academy of Sciences USSR) are compared with the results obtained by other authors. Tables of the thermophysical properties of ²¹Hg, molten ²¹Sn, ²¹Pb, ²¹Bi, of the alloy Pb(44.5%)-Bi, ²¹Li, ²¹Na, ²¹K, and the alloy Na(75%)-K for a wide temperature range are presented. There are 41 references.

T.V. Zakharova

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

KULALAYEV, A., inzh.-mekhanizator

Improve the organization of the repair of loading and unloading machines. Mor. flot 23 no. 12:10 (MIRA 17:5)

1. Petropavlovskiy morskoy port.

KULALAYEV, S.

Exact recording lowers unproductive water consumption. Zhil.-
kom.khoz. 9 no.12:24 '59. (MIRA 13:4)

1. Nachal'nik otдела vodoshyta Upravleniya vodoprovodno-
kanalizatsionnogo khozyaystva, g.Choboksary.
(Water consumption) (Water meters)

L 1711-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(h) IJP(c) MJW/
JD/HW

ACCESSION NR: AP5021950

UR/0193/65/000/008/0012/0013
669.018:621.365.2

AUTHOR: Vasil'yev, N. Ye.; Bushmakia, Yu. A.; Kulalayev, Yu. A.;

TITLE: Experience in melting the alloy 79NM in electric arc furnaces and rolling 3.3 ton ingots of this alloy

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 8, 1965, 12-13

TOPIC TAGS: nickel containing alloy, arc furnace, ingot, rolling mill, magnetic property, aluminum containing alloy

ABSTRACT: The Izhevsk Metallurgical Plant, in collaboration with the Novosibirsk Metallurgical Plant, has experimentally produced slabs of the alloy 79NM by rolling rather than forging. This alloy is obtained by melting Armco iron, grade N-0 or N-1 nickel, and grade Mo-1 ferromolybdenum in 20-ton electric arc furnaces (transformer power 5000 kva, melt weight 13-15 tons), and cast into 3.3 ton ingots which are air-cooled and, following the elimination of surface defects, conveyed to a hot-rolling mill (at the Novosibirsk Metallurgical Plant) for rolling into slabs with a cross sectional area of $130^{+6} \times 370^{+15}$ mm (23 passes, with reduct-

Card 1/3

L 1711-66

ACCESSION NR: AP5021950

ion in area of from 55 to 20 mm per pass). At the Novosibirsk Plant the slabs are reduced to a thickness of 3 mm after pickling, cutting to a width of 120-210 mm, and deburring, and then returned to the Izhevsk Plant, where they are processed into 0.1-1.0 mm thick cold-rolled strips. Tests showed that the magnetic properties of the alloy satisfy the requirements of the State Standard 10160-62 and are largely determined by the alloy's nickel content. The first results of this experiment showed that the melting techniques needed some improvement: the ingots from the melts with an excessively low titanium content displayed signs of improper shrinkage. Therefore, to obtain more compact ingots, subsequent meltings were performed on increasing deoxidation with titanium metal to 18-2.0 kg/ton and with aluminum metal to 0.5-0.6 kg/ton. Then the ingot metal contained 0.08-0.1% Ti and approx. 0.05% Al. Following these and certain other modifications, the production of slabs by this method was introduced on a permanent basis at the Izhevsk Plant. As a result the rolling cost at the Novosibirsk Plant could be reduced 42% compared with forged slabs and cold-rolled strip could be obtained in bundles weighing up to 500-700 kg each without being welded along their length. Orig. art. has: 1 figure, 1 table.

ASSOCIATION; none

Card 2/3

L 1711-66

ACCESSION NR: AP5021950

SUBMITTED: 00

ENCL: 00

SUB CODE: 121, 12

NO REF SOV: 000

OTHER: 000

Card 3/3

VASIL'YEV, N.Ye.; BUSHMAKIN, Yu.A.; KUDALAYEV, Yu.S.

Smelting the 70M alloy in electric-arc furnaces and rolling
3,3 ton ingots. Biul. tekhn.-ekon. inform. Gos. nauch.-issl. inst.
nauch. i tekhn. inform. no. 8: 12-13 Ag '65.

(MIRA 18:12)

Trade-Unions

Lecture program arranged by the lecture bureau on trade-union activities. V pom. profaktivu 13, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

KULAMOWICZ, Antoni; JAZDZEWSKI, Krzysztof

Contribution to the taxonomy and distribution of *Phoxinus phoxinus* (Pall.) (Cyprinidae) in Poland. *Nauki matematyczne przyrod*
Lodz no.7:141-152 '60.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

KULAMOWICZ, Antoni

A case of hypertrophy of certain rays in the back and tail fins
in *Phoxinus phoxinus* (Pall.) 1911 (Cyprinidae). *Nauki matemat
przyrod Lodz* no.10:175-176 '61.

1. Department of Systematic Zoology, University, Lodz.

KULACHICZ, Antoni

Racial Differentiation of *Phoxinus phoxinus* (Pall.) (Cyprinidae, Osteichthyes) in Poland. Przegl zoolog 6 no.3:224-226 '62.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

KULAMOWICZ, Antoni; KLIMKIEWICZ, Witold

Phoxinus phoxinus phoxinus (Pall.) 1811 (Cyprinidae, Osteichthyes) on the territories of the mouth of the Vistula River. Nauki matematyczne Lodz no.12:141-143 '62.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

KULAMOWICZ, Antoni

New stands of *Phoxinus phoxinus phoxinus* (Pall).
(Cyprinidae, Osteichthyes) in Poland. Nauki matemat
przyrod Lodz no.13:129-136 '62.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

KULANOWICZ, Antoni

Survey of the material for the taxonomy and distribution of
Phoxinus (Gila) percnurus (Pallas, 1811) Cyprinidae, Osteichthyes
in Poland. Nauki matematyczne Lodz no. 15: 47-86 '63.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

KULANDA, K.M.

Representation of the internal organs in the cerebral cortex and cerebellum in cats and dogs. Report No.4: Representation of the nn. pelvici and pudendi in the cerebral cortex of dogs. Biul. eksp. biol. i med. 49 no.2:16-22 F '60. (MIRA 14:5)

1. Iz laboratorii obshchey fiziologii (zav. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR V.N. Chernigovskim.
(CEREBRAL CORTEX) (PELVIS--INNERVATION)
(CEREBELLUM)

USSR/Medicine - Tissue Therapy

Nov/Dec 52

"The Effect of Tissue Transplantation, of the Introduction of Extract Tissues, and Certain Other Types of Nonspecific Irritation on the Higher Nervous Activity," (Concerning the Mechanism of Tissue Therapy Action), "G.M. Zilov, K.M. Kulanda, Chair of Normal Physiol, First Moscow Med Inst

"Zhur. Vysh Nerv Deyat imeni I.P. Pavlova" Vol 2, No 6, pp 812-825

Describes experiments with transplantation and injection of fresh and preserved tissues. These experiments were conducted on animals according to the method of V.P. Filatov. The results demonstrated a diffused process of inhibition occurring in response to the toxic effect of the injected extract on the cortex. The curative effects of tissue therapy and other types of "Irritation Therapy" may be due to this protective inhibition arising in the cortex and exercising a beneficial effect on the pathological process developing in the organism.

246726

ZILOV, G.N.; KULLANDA, K.M.

Effect of tissue implantation, of introduction of tissue extracts,
and of other types of nonspecific stimulation on the higher nervous
function; mechanism of action of tissue therapy. Zh. vysshei nerv. deiat.
(CML 24:1)
2 no. 6:812-825 Nov-Dec 1952.

1. Department of Normal Physiology of First Moscow Medical Institute.

1. KULLANDA K.M., ZILOV G.N.
2. USSR (600)
4. Transplanatation (Physiology)
7. Effect of tissue transplantation and of the introductions of tissue extracts and of other types of non-specific stimuli on the higher nervous function; mechanism of the effect of tissue therapy. Zhur.vys.nerv.deiat. 2 no. 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KULLANDA, K.M.

Country : USSR
Category: Human and Animal Physiology. Nervous System.
Cerebral Cortex

T

Abs Jour: RZhBiol., No 19, 1958, 89212

Author : Kullanda, K.M.
Inst : -

Title : On the Projection of Internal Organs Upon the
Cerebral Cortex and Cerebellar Cortex of Cats and
Dogs. Report I. Projection of the Pelvic Nerve
Upon the Cerebral Cortex of Cats.

Orig Pub: Byul. eksperim. biol. i meditsiny, 1957, 43, No 5,
3-9

Abstract: Following electrical stimulation of the central end
of the pelvic nerve two separate zones were demon-
strated in the cerebral cortex of the cat in both

Card : 1/2

T-92

Country : USSR
Category: Human and Animal Physiology. Nervous System.
Cerebral Cortex

T

Abs Jour: RZhBiol., No 19, 1958, 89212

hemispheres, in which the following primary
responses were registered (monopolar lead);
I - on both sides of the medial and middle part
of the cruciform fissure, II - along the lower
and middle part of the anterior ectosylvian fis-
sure. -- G.M. Frenkel'

Card : 2/2

T

Country : USSR

Category: Human and Animal Physiology. Nervous System.
Cerebral Cortex

Abs Jour: RZhBiol., No 19, 1958, 89213

Author : Kullanda, K.M.

Inst :

Title : On the Projection of Internal Organs Upon the
Cerebral Cortex and Cerebellar Cortex of Cats and
Dogs. Report II. Primary Bioelectrical Reactions
of the Hemispheric Cortex Following Stimulation of
Internal Organs.

Orig Pub: Byul. eksperim. biol. i meditsiny, 1957, 43, No 6, 3-8

Abstract: In acute experiments on cats and dogs stimulation
of the mechano-receptors of the urinary bladder,
of the rectum and the uterus was followed by the

Card : 1/2

*Lab Gen Physiol,
Inst Normal & Pathological Physiology*

T-93

AMS USSR

Country : USSR
Category: Human and Animal Physiology. Nervous System.
Cerebral Cortex

T

Abs Jour: RZhBiol., No 19, 1958, 89213

appearance of local complexes of primary responses (latent period 12-30 msec.) in the cruciform and anterior ectosylvian gyri - I and II zones of the cortical projection of the pelvic nerve. Stimulation of the receptors of the stomach and pericardium caused primary responses in the first and second fields of general somatic sensitivity, in the areas corresponding to the cortical projection of the pelvic and splanchnic nerves. -- R.M. Mesherskiy

Card : 2/2

KULLANDA, K.M., Cand Med Sci -- (diss) " Concerning the representation of certain internal organs in the ^{neocortex} ~~cortex~~ of the ~~cerebrum~~ and in the cortex of the cerebellum of cats and dogs." Mos, 1951, 18 pp Acad Med Sci USSR) 200 copies (KL, 50-58, 129)

- 131 -

17(1,4)

AUTHOR:

Kullanda, K. M.

SOV/20-124-6-52/55

TITLE:

Representation of the n. n. pelvici et pudendi in the Cerebellar Cortex of Cats (Predstavitel'stvo n. n. pelvici et pudendi v kore mozghechka koshek)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1367-1370 (USSR)

ABSTRACT:

2 papers are to be found in publications (Refs 1, 2) concerning the detection of representations of the n. vagus and n. visceralis respectively in the cerebellum. The theme mentioned in the title was studied on 45 cats under application of chloralose or Nembutal narcosis. The registration of bioelectric reaction of the cerebellar cortex due to individual or rhythmical stimulations of the central endings of the nerves mentioned in the title by way of electric current rendered the following results: one single stimulus on one of the nerves causes widely spread biopotentials (Fig 1) on the cortex surface. However, some regions are more active in this connection. Since the author was convinced that the potentials forming are of various kinds just as is the case with the regions in which they were registered, he proceeded to further investigations (Fig 3).

Card 1/3

Representation of the n. n. pelvici et pudendi
in the Cerebellar Cortex of Cats

SOV/20-124-6-52/55

According to the author's opinion the analysis of the results obtained gave cause to the following conclusions:
1) by recording the biopotentials which are formed by a number of successive stimulations of the afferent nerve, the region of highest activity can be detected. This region covers a much smaller area than that in which potentials are registered due to the first current shock. 2) In these active regions an even more limited place can be found: the focus of maximum activity (FMA). 3) Its existence is probably directly connected with the fact that exactly in this cerebellar cortex area the afferent channels (or their collaterals) are ending, the peripheral part of which is the stimulated afferent nerve. 4) N. n. pelvici et pudendi have their representation region in the cerebellum.

Card 2/2

Representation of the n. n. pelvici et pudendi
in the Cerebellar Cortex of Cats

SOV/20-124-6-52/55

Their FmA is located ipsilaterally on the l. anterior of the
15th and 16th region (Fig 2). There are 3 figures and
2 references.

ASSOCIATION: Institut normal'noy i patologicheskoy fiziologii Akademii
meditsinskikh nauk SSSR (Institute of Normal and
Pathological Physiology of the Academy of Medical Sciences,
USSR)

PRESENTED: October 23, 1958, by K. M. Bykov, Academician

SUBMITTED: October 17, 1958

Card 3/3

17(1)

SOV/20-125-6-57/61

AUTHOR:

Kullanda, K. M.

TITLE:

Analysis of the Bioelectric Potentials Arising in the Cerebellum Cortex on the Stimulation of Certain Afferent Nerves
(Analiz bioelektricheskikh potentsialov, vznikayushchikh v kore mozghechka pri stimuliyatsii nekotorykh afferentnykh nervov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1378-1381
(USSR)

ABSTRACT:

The analysis mentioned in the title had been omitted in earlier papers (Refs 1,3) on the stimulation of visceral nerves. This gap is now to be filled by the paper under review. Nervi pudendi et pelvici were employed for this purpose. In 45 cats, experiments were carried out with the use of chloralose and nembutal narcoses. Figure 1 shows the response recorded in the ipse-lateral part of the anterior cerebellum lobe. In this, we must differentiate among 4 components (1 - 4) : (1) a negative component, insignificant from a point of view of its amplitude, arising with a latent period of approximately 5 minutes. It can be more marked (Curve II), or absent (IV).

Card 1/4

SOV/20-125-6-57/61

Analysis of the Bioelectric Potentials Arising in the Cerebellum Cortex on
the Stimulation of Certain Afferent Nerves

Component (1) immediately changes into (2), which represents a positive potential fluctuation. Its latent period lasts 12-16 m/sec. Component (2) immediately changes into (3), which is also positive and which has a latent period of 17-26 m/sec. Component (4) has a latent period of 26-34 m/sec. As the development of the potential is not interrupted, this component has a negative phase as well. Thus the response of the cerebellum given immediately to a peripheral stimulus consists of a complex of bioelectric oscillations. Each of them arises with its specific latent period, and has certain properties of its own. The author wants to term such a reaction an immediate complex reaction (*neposredstvennaya kompleksnaya reaktsiya*) - ICR. Figure 2 shows the above-mentioned differences in the biopotentials arising in the same place in the cerebellum as a response to 2 successive stimuli. Recordings I and III reflect the 1st current impulse, recordings II and IV the second one. Recordings I-II and III-IV presented below the above recordings were plotted by means of superimposition of the appropriate curves. From them it can be seen that it is the 2nd current impulse that removes from the ICR all components save

Card 2/4

SOV/20-125-6-57/61

Analysis of the Bioelectric Potentials Arising in the Cerebellum Cortex on the Stimulation of Certain Afferent Nerves

(3). Consequently, the difference between the potentials arising on the 1st and 2nd current impulses consists in the fact that the 1st stimulus gives rise to all 4 components, whereas the 2nd impulse produces but the 3rd component. Recordings V and VI (Fig 2) show the differences between the ICR's to the 1st current impulse in individual cerebellum zones. VII and VIII illustrate ICR's at individual points of the contra-lateral part of the anterior lobe, in which component (3) is absent. The 4th component is the potential most widely distributed in the cerebellum cortex. From the above it can be concluded that not all of the ICR components can be utilized as indicators for the clarification of the problem of the representation in the cerebellum of certain afferent nerves (not only of visceral, but also of somatic ones). By way of conclusion, the author tries to interpret the results obtained. There are 3 figures and 3 references, 1 of which is Soviet.

ASSOCIATION: Institut normal'noy i patologicheskoy fiziologii Akademii
Card 3/4 meditsinskikh nauk SSSR (Institute of Normal and Pathological

SOV/20-125-6-57/61

Analysis of the Bioelectric Potentials Arising in the Cerebellum Cortex on
the Stimulation of Certain Afferent Nerves

Physiology of the Academy of Medical Sciences USSR)

PRESENTED: October 23, 1958, by K. M. Bykov, Academician

SUBMITTED: October 11, 1958

Card 4/4

KULLA'DA, K. M. (Moskva)

Nekotoryye voprosy funktsional'nykh vzaimootnosheniy retikulyarnykh formatsii mozgovogo stvola s afferentnymi sistemami vnutrennikh organov i ikh provektsiyami v kore bol'shikh polushariy i mozzhechka

report submitted for the First Moscow Conference on Reticular Formation, Moscow, 22-26 March 1960.

KULLANDA, K.M.

Comparative characteristics of the projection zones of nn. pelvici et pudendi in the cerebral cortex of cats and dogs. Fiziol. zhur. 46 no.11:1336-1344 N '60. (MIRA 13:11)

1. From the Institute of Normal and Pathological Physiology, U.S.S.R. Academy of Medical Sciences, Moscow.
(CEREBRAL CORTEX) (PELVIS---INNERVATION)

KULLANDA, K.M.

Representation of the internal organs in the cerebral cortex and cerebellum of cats and dogs. Report no.3: Representation of the n. pudendi in the cerebral cortex of cats. *Biul. eksp. biol. i med.* 49 no.1:8-12 Ja '60. (MIRA 13:7)

1. Iz laboratorii obshchey fiziologii (zav. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystv. chlenom AMN SSSR V.N. Chernigovskim.

(CEREBRAL CORTEX)

(PELVIS—INNERVATION)

KULLANDA, K.M.

On representation of the internal organs in the cerebral cortex and cerebellar cortex in cats and dogs. Report No. 5: Individual variations in localizations of the zones of specific projections in the cortex of the greater hemispheres in cats and dogs. Biul. eksp. biol. i med. 49 no. 5:3-6 My '60. (MIRA 13:12)

1. Iz laboratorii obshchey fiziologii (zav. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR. V.N. Chernigovskim.
(CEREBRAL CORTEX)
(BRAIN—LOCALIZATION OF FUNCTIONS)

BRAYNES, Samuil Natanovich; NAPALKOV, Anatoliy Viktorovich;
SVECHINSKIY, Vladislav Borisovich; KULLANDA, K.M., red.;
BUL'DYAYEV, N.A., tekhn. red.

[Neurocybernetics] Neirokibernetika. Moskva, Medgiz, 1962. 171 p.
(MIRA 15:6)
(NERVOUS SYSTEM) (INFORMATION THEORY IN BIOLOGY)

KULLANDA, K.M.

Study of the intracentral mechanisms of the formation of temporary connections in an acute experiment and its first results.

Trudy Inst. norm. i pat. fiziol. AMN SSSR 6:23-25 '62

(MIRA 17:1)

1. Kafedra normal'noy fiziologii 1-go Moskovskogo ordena Lenin-meditsinskogo instituta imeni Sechenova i laboratoriya obshchey fiziologii tsentral'noy nervnoy sistemy Instituta normal'noy i patologicheskoy fiziologii AMN SSSR (zav. - kafedroy i laboratoriyey deystvitel'nyy chlen AMN SSSR prof. P.K.Anokhin).

PARIN, Vasil'y Vasil'yevich; BAYEVSKIY, Roman Markovich; KULLANDA,
K.M., red.; MATVEYEVA, M.M., tekhn. red.

[Cybernetics in medicine and physiology] Kibernetika v
meditsine i fiziologii. Moskva, Medgiz, 1963. 117 p.
(MIRA 16:4)

(CYBERNETICS) (MEDICINE) (PHYSIOLOGY)

ANOKHIN, P.K., red.; KOSTYUK, P.G., red.; KRYZHANOVSKIY, G.N., red.;
LEBEDINSKIY, A.V., red.; MENITSKIY, D.N., red.; MUZYKANTOV,
V.A., red.; PARIN, V.V., red.; ROYTBAK, A.I., red.; KULLANDA,
K.M., red.

[Contemporary problems of electrophysiological studies of
the nervous system] Sovremennye problemy elektrofiziologi-
cheskikh issledovaniy nervnoi sistemy. Moskva, Meditsina,
1964. 519 p. (MIRA 17:7)

1. Akademiya meditsinskikh nauk SSSR, Moscow.

KULLANDA, K.M.

Some problems of the physiology of nerve cells. Trudy Un. družh.
nar. 7. Vop. med. no.1:58-104 '64. (MLid 18:9)

1. Kafedra normal'noy fiziologii Universiteta Druzhby Narodov
imeni Patrisa Lumumby, Moskva.

KULANDIN, A. N. (Lugansk padagogic institute)

"Theoretical methods of determination of thermal physical coefficients of humid capillary-porous bodies"

Report presented at the Section on Heat and Mass Transfer, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651. 19 May 1964.

MARINOVSKIY, N.A., inzh.; KOVAL', V.K., inzh.; KULANDIN, V.V., inzh.

New design of the piston head of the OP-95 free-piston gas producer. Mashinostroenie no.4:73-74 J1-Ag '62. (MIRA 15:9)

1. Luganskiy teplovozostroitel'nyy zavod imeni Oktyabr'skoy revolyutsii.

(Gas producers)

PROZOROV, Leonid Vasil'yevich; UNKSOV, Ye.P., professor, doktor tekhnicheskikh nauk, retsenzent; KULANDIN, Ya.I., inzhener, retsenzent; PASTERNAK, N.A., kandidat tekhnicheskikh nauk, redaktor; POPOVA, S.M. tekhnicheskii redaktor

[The pressing of steel] Pressovanie stali. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 263 p. (MLRA 9:9)
(Steel--Cold working)

PETROV, Aleksey Semenovich; KARMANOV, Aleksandr Ivanovich; KULANDIN, Ya.I., red.; LEVANDOVSKIY, S.N., red.; GOLYATKINA, A.G., red. 1zd-va; ISLENT'YEVA, P.G., tekhn. red.

[Manufacture of rolls for cold rolling] Proizvodstvo valkov kholodnoi prokatki. Moskva, Metallurgizdat, 1962. 216 p.
(Rolls (Iron mills)) (MIRA 15:4)

24(8)

SOV/170-59-5-11/18

AUTHORS:

Kazanskiy, M.F., Kulandina, A. N.

TITLE:

Effect of the Form of Moisture Bonds on Heat Transfer in
Typical Capillary-Porous Bodies (Vliyaniye form svyazi vlagi
na teploperenos v tipichnykh kapillyarno-poristyykh telakh)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 5, pp 88-92 (USSR)

ABSTRACT:

The present paper describes experiments on determination of a relationship between the coefficients of heat transfer, i.e., temperature conductivity α and heat conductivity λ , of typical capillary-porous bodies on the one hand, and the forms and kinds of bonds of the moisture, contained in these bodies, on the other hand. Purified quartz sand from a river and silica gel were taken as the objects of investigation. An analysis of differential water-absorbing properties of the quartz sand was carried out by means of the curves of negative capillary pressure and thermograms of isothermal drying [Ref 1] and for silica gel, moreover, by the method of isotherms of water steam adsorption. A special laboratory device, applied for determining

Card 1/2

Effect of the Form of Moisture Bonds on Heat Transfer in Typical Capillary-
Porous Bodies

SOV/170-59-5-11/18

thermal coefficients of moist materials by the method of two temperature-time points [Ref 3], is described and illustrated by Figure 1. The results of experiments are presented in graphical form in Figure 2 by two curves for each material, which express the relationships sought for. The character of variations of coefficients λ and α with changing moisture W of a porous body indicates the existence of various forms of bonds for capillary water contained in the body. There are: 1 diagram, 1 graph, 1 table and 8 references, 7 of which are Soviet and 1 German.

ASSOCIATION:

Pedagogicheskiy institut imeni A.M. Gor'kogo (Pedagogical Institute imeni A.M. Gor'kiy), Kiyev.

Card 2/2

KAZANSKIY, M.F., KULANDINA, A.N., LUTSIK, P.P.

Hydrothermal properties of typical colloidal, capillary-porous bodies and their relation to the form of the bond of the absorbed moisture. Inzh.-fiz.zhur. no.2:67-70 F '60. (MIRA 13:7)

1. Gosudarstvennyy pedagogicheskiy institut, Kiev.
(Colloids—Thermal properties)

KULANIN, V.S.

SETEYN, Mukhim Iosifovich; ANDRIYEVSKIY, M.N., retsenzent; KULANIN, V.S.,
retsenzent; KHEL'ZON, V.S., red.; GRIGOR'YEV, Ya.N., red.;
VOIKOVA, N.M., red.; KORUZEV, N.N., tekhn. red.; SMUROV, B.V.,
tekhn. red.

[Elements of calculating ultra-shortwave transmitters] Elementy
rascheta radioperechatnikov ul'trakorotkikh voln. Moskva, Izd-vo
"Sovetskoe radio," 1958. 461 p. (MIRA 11:10)
(Radio, Shortwave—Transmitters and transmission)

KULANOV, V.N.

Efficiency of using a lint remover by blowing. Tekst. prom. 17 no.8:
52 Ag '57. (MIRA 10:9)

1. Nachal'nik tsakha mekhanizatsii Cheboksarskogo khlopchatobumash-
nogo kombinata.

(Cotton machinery--Attachments)
(Dust collectors)

С. 10.10.1957, УМ
KULANOV, V.N.

Change the system of servicing automatic control equipment.
Tekst.prom. 17 no.10:62-63 0 '57.

(MIRA 10:12)

1.Nachal'nik tsekha mekhanizatsii Cheboksarskogo khlopchatobumazhnogo
kombinata.

(Automatic control)

(Textile industry--Equipment and supplies)

KULANOV, V.N.

Effect of load magnitude and intermediate drafts on sliver
unevenness on LNS-51 draw frames. Tekst. prom. 25 no.10;
25-26 0 '65. (MIRA 18:10)

1. Nachal'nik pryadil'nogo proizvodstva fabрики "Komavangard".

21.5000, 24.6720, 24.6800,
24.6810, 16.8100

76961

SOV/56-37-6-1/55

AUTHORS: Anton'eva, N. M., Bashilov, A. A., Kulanskiy, E. K.
TITLE: Radioactive Decay of $\text{Ag}^{110\text{m}}$
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki,
1959, Vol 37, Nr 6, pp 1497-1505 (USSR)

ABSTRACT: A study was made of the photoelectron spectrum produced by the γ -rays of $\text{Ag}^{110\text{m}}$. The magnetic spectrometer and the setup used were analogous to those described by B. S. Dzhelepov and A. A. Bashilov (cf. Izv. Akad. nauk SSSR. Ser. fiz., 14, 263, 1950). An analysis was also made of the β -ray spectrum up to 530 kev and of the spectrum of conversion electrons corresponding to nuclear transitions with energies of 116 kev and 656 kev. The internal conversion coefficients for 14 nuclear transitions in Cd^{110} and the multipolarity of the radiation were determined on the basis of the relative line intensities found in the present work and on the data given in a previous paper by the authors (cf. Doklady Akad. nauk

Card 1/7

Radioactive Decay of $\text{Ag}^{110\text{m}}$

75-1
S0156-37-6-1/55

SSSR, 77, 41, 1951). The spectrum of photoelectrons due to the γ -rays of $\text{Ag}^{110\text{m}}$ (with Bi radiator, $\sigma = 3 \text{ mg/cm}^2$) was as shown in Fig. 2.

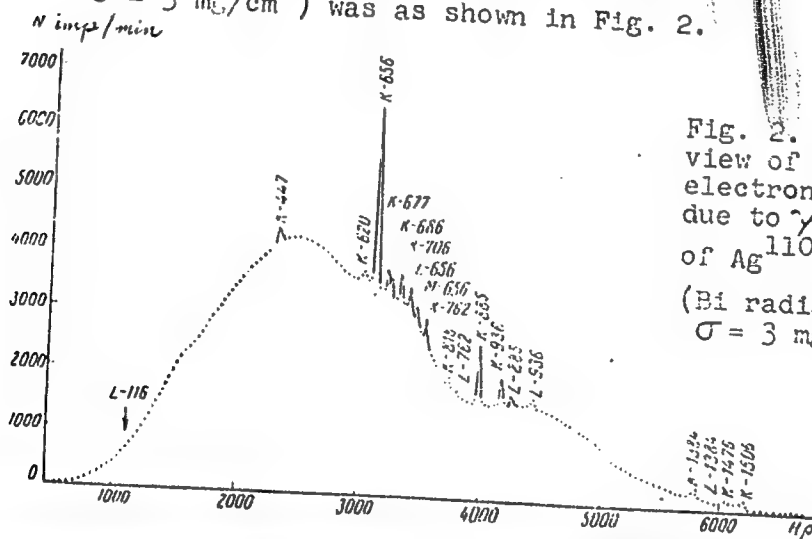


Fig. 2. General view of the photoelectron spectrum due to γ -rays of $\text{Ag}^{110\text{m}}$ (Bi radiator $\sigma = 3 \text{ mg/cm}^2$)

Card 2/7

Radioactive Decay of $\text{Ag}^{110\text{m}}$

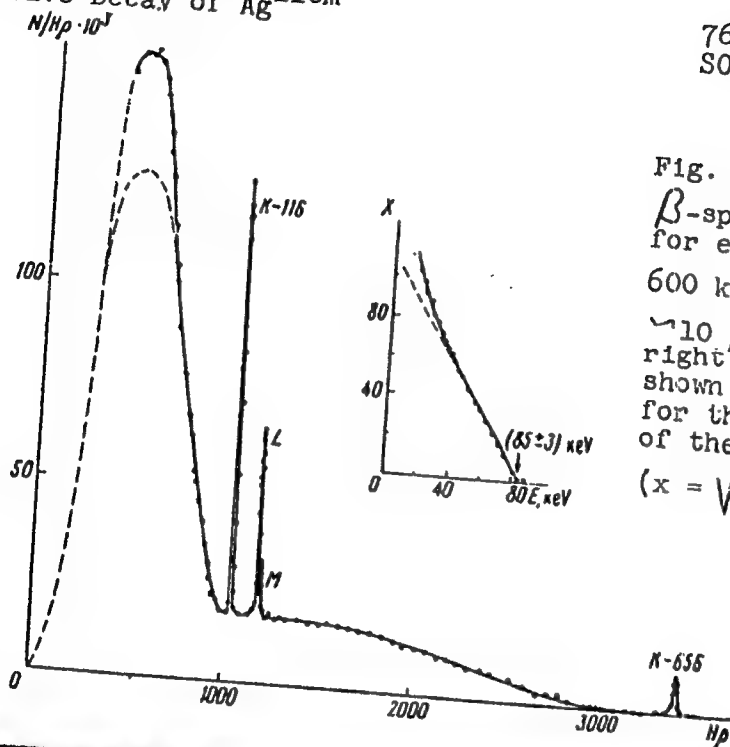
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SOV/56-37-6-1/55

The relative intensities of the lines accorded well with the most reliable data from literature (cf. B. S. Dzhelepov, N. N. Zhukovskiy, Nucl. Phys., 6, 655, 1958). The β -spectrum of $\text{Ag}^{110\text{m}}$ for energies up to 600 kev (source $\sigma \sim 10 \mu\text{g}/\text{cm}^2$) is shown in Fig. 6,

Card 3/7

Radioactive Decay of $\text{Ag}^{110\text{m}}$



76961
SOV/56-37-6-1/55

Fig. 6. The β -spectrum of $\text{Ag}^{110\text{m}}$ for energies up to 600 keV (source $\sigma \sim 10 \mu\text{E}/\text{cm}^2$). On the right and above is shown the Fermi graph for the soft component of the β -spectrum ($x = \sqrt{N\delta/E_F}$).

Card 4/7

Radioactive Decay of $\text{Ag}^{110\text{m}}$

76961
SOV/56-37-6-1/55

where, on the right and above is shown the Fermi graph for the soft component of the β -spectrum

$X = \sqrt{N \delta / E \beta F}$. The relative intensities and the form of lines accorded with the data of D. Strominger, J. Hollander, and G. Seaborg (cf. Rev. Mod. Phys., 30, 585, 1958). On the basis of these data the decay scheme of Ag^{110} shown in Fig. 7 was proposed. The balance of energy in this scheme comprises ± 3 kev. The ratio of conversion electrons for the transition at 656 kev to the number of β -particles was

$e_{K-656} / \beta = (2.5 \pm 0.3) \times 10^{-3}$. If it is assumed that the number of nuclear transitions $E_{\gamma} = 655$ kev is 0.93 per each decay (see the figure below), then the internal conversion coefficient is $\alpha_{K-656} = (2.7 \pm 0.3) \times 10^{-3}$. Within the limits of experimental error, this value accords with the theoretical value for the internal conversion coefficient for transitions of type E2. V. K. Adamchuk and M. A. Dolgoborodova participated in this work. There are

Card 5/7

Radioactive Decay of $\text{Ag}^{110\text{m}}$

76961
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4 tables; 7 graphs; and 13 references, 5 Soviet,
1 U.K., 7 U.S. D. Strominger, J. Hollander, G.
Seaborg. Rev. Mod. Phys., 30, 585, 1958; L. Marino,
W. Ewbank, W. Nierenberg, H. Shugart, H. Silsbee. Phys.
Rev., 111, 286, 1958; E. G. Funk, M. L. Wiedenbeck.
Phys. Rev., 112, 1247, 1958; H. W. Taylor, S. A. Scott.
Phys. Rev., 114, 121, 1959; H. W. Taylor, W. R. Frisken,
Phys. Rev., 114, 127, 1959, are the 5 most recent U. S.
references.

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Card 7/7

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Characteristics of *Corynebacterium diphtheriae* strains from endemic
focus in Lodz in 1955 & 1956. Przegl. epidem., Warsz 11 no.4:371-383
1957.

1. Ze stacji Sanatarno-Epidemiologicznej M. Lodzi (Dyrektor: dr J. Zansk)
przy wspoludziale: Laboratorium Szpitala Zakaznego im. S. Bieganskiego
i Laboratorium Szpitala Dzieciacego im. J. Korczaka.

(*CORYNEBACTERIUM DIPHTHERIAE*

characteristics of Polish strains (Pol))